



JP11228748

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## FLAME-RETARDANT POLYOLEFIN RESIN COMPOSITION

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### Abstract

**PROBLEM TO BE SOLVED:** To obtain a nonhalogen composition having excellent flame retardancy and elongation at break by incorporating a specified amount of a polyolefin resin and a specified amount of an organically treated swelling clay mineral.

**SOLUTION:** This composition comprises 100 pts.wt. polyolefin resin (e.g. PE) and 1-200 pts.wt. organically treated swelling clay mineral, desirably, smectite, more desirably, montmorillonite and/or hectorite or comprises 100 pts.wt. polyolefin resin, 0.5-100 pts.wt. organically treated swelling clay mineral, and 0.5-100 pts.wt. phosphorus compound being at least one member selected among red phosphorus, polyammonium phosphate, and a phosphorus compound of the formula (wherein R<1> and R<3> are each H, a 1-16C alkyl, or an aryl; and R<2> is R<1>, OH, an alkoxy, or an aryloxy). Alternatively, it comprises 100 pts.wt. polyolefin resin, 1-200 pts.wt. organically treated swelling clay mineral, and 0.01-20 wt.%, based on the clay mineral, metal oxide.

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